

Abstract of the Disclosure

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In a write process through channels Ch1, Ch2, and Ch3, the deadline of each channel is set based
5 on the transfer rate variable by the ratio of dummy
packets to valid packets, and deadline information
is written with write data on a disk. In a read
process through a channel Ch4, the deadline is set
according to the deadline information read with
10 read data from the disk. Then, data is sequentially
processed in order from the data having the
earliest deadline. Considering the difference in
transfer rate between outer and inner zones on the
disk, a write zone is determined. When data is
15 simultaneously recorded through the channels Ch1
and Ch2 on an ASMO in a groove-land record system,
the data is sequentially recorded through the
channel Ch1 on the groove and through the channel
Ch2 on the land.